

**Notice of Allowability**

Application No.

10/087,703

Applicant(s)

NAKATA ET AL.

Examiner

Renata McCloud

Art Unit

2837

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/10/2003.
2. ☒ The allowed claim(s) is/are 2-22 and 24-26.
3. ☒ The drawings filed on 28 February 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
  - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No. \_\_\_\_\_.
  - (b) ☐ including changes required by the proposed drawing correction filed \_\_\_\_\_, which has been approved by the Examiner.
  - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)          |
| 2 <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)                        | 6 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____             |
| 3 <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No. _____  | 7 <input type="checkbox"/> Examiner's Amendment/Comment                             |
| 4 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
|   | 9 <input type="checkbox"/> Other  |

## DETAILED ACTION

### *Response to Amendment*

1. In response to the amendment filed 10 October 2003, the following has occurred:
  - (a) Claims 1 and 23 have been cancelled.
  - (b) Claims 2-6, 20, 22, and 24-26 have been amended.

### *Allowable Subject Matter*

2. Claims 2-22 and 24-26 are allowed. The following is an examiner's statement of reasons for allowance:

**Claim 2:** The prior art made of record fails to teach an electric motor controller having an inverter control section that comprises a frequency setting section, a wave generation section, a reactive current computing section, a reactive current command section, an error voltage computing section, a V/f conversion section, and adder, and an output command section for computing a control signal from the outputs of the wave generation section and the adder.

**Claims 3-6:** The prior art made of record fails to teach an electric motor controller having an inverter control section that comprises a frequency setting section, a wave generation section, a reactive current computing section, a phase difference computing section, a phase difference command section, an error voltage computing section, a V/f conversion section, and adder, and an output command section for

computing a control signal from the outputs of the wave generation section and the adder.

**Claims 7-22:** The claims depend from the above-mentioned allowable claims.

**Claim 24:** The prior art made of record fails to teach a compressor including an electric motor controller having an inverter control section that comprises a frequency setting section, a wave generation section, a reactive current computing section, an error voltage computing section, a V/f conversion section, and adder, and an output command section for computing a control signal from the outputs of the wave generation section and the adder.

**Claim 25:** The prior art made of record fails to teach a fan including an electric motor controller having an inverter control section that comprises a frequency setting section, a wave generation section, a reactive current computing section, an error voltage computing section, a V/f conversion section, and adder, and an output command section for computing a control signal from the outputs of the wave generation section and the adder.

**Claim 26:** The prior art made of record fails to teach a pump including an electric motor controller having an inverter control section that comprises a frequency setting section, a wave generation section, a reactive current computing section, an error voltage computing section, a V/f conversion section, and adder, and an output command section for computing a control signal from the outputs of the wave generation section and the adder.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Renata McCloud whose telephone number is (703) 308-1763. The examiner can normally be reached on Mon.- Fri. from 8 am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Nappi can be reached on (703) 308-3370. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9318.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Renata McCloud  
Examiner  
Art Unit 2837

RDM

  
**ROBERT NAPPI**  
**SUPERVISORY PATENT EXAMINER**